



State of New Hampshire  
DEPARTMENT OF ENVIRONMENTAL SERVICES

6 Hazen Drive, P.O. Box 95, Concord, NH 03302-0095  
(603) 271-3406 FAX (603) 271-7894



July 31, 2003  
**Letter of Deficiency**  
DSP#03-045

Mr. Keith Noyes  
Town of Exeter Public Works  
10 Front Street  
Exeter, NH 03833

RE Exeter Reservoir Dam #082.02, Exeter

Dear Mr. Noyes:

The Department of Environmental Services, Dam Bureau (DES) consistently strives to enhance the safety of dams in New Hampshire through its dam safety program. One of the many instruments that play a part in reaching this goal is our inspection program. DES is forwarding this correspondence to you to advise you that in accordance with RSA 482:12 and Env-Wr 502.02, an inspection of the subject dam was conducted on June 6, 2003. During this visual inspection and/or file review, the following deficiencies were observed:

The concrete spillway channel floor was cracked at several locations along the length of the channel. Water was observed migrating beneath the channel floor. There was no water seen day lighting at the toe of the adjacent lagoon embankment;

A 20-foot section of the left concrete discharge channel wall, beginning at the southwest corner of the water treatment building, is severely leaning in towards the channel and in danger of collapse;

There was minor leakage noted from the seats of both low level gates;

- 4 There was minor concrete deterioration along the upstream face of the concrete cutoff wall in the following locations:
  - a. At the upstream outer corner of the left spillway training wall
  - b. Approximately 34' to the right of the raw water intake;
  - c. Approximately 14' from the left end of the dam;
- 5 There is no operation and maintenance plan (O&M) on file with the DES; and
- 6 The Emergency Action Plan (EAP) needs to be updated and tested as required annually

DES believes that the above deficiencies can be corrected by performing the following items by the indicated schedule:

**September 30, 2003:**

1. Repair the concrete spillway channel floor that was cracked at several locations along the length of the channel;
2. Repair the 20-foot section of the left concrete discharge channel wall, beginning at the southwest corner of the water treatment building that is severely leaning in towards the channel and in danger of collapse;

Letter of Deficiency  
Dam#082.02/DSP#03-045  
July 31, 2003  
pg. 2

Repair the minor concrete deterioration along the upstream face of the concrete cutoff wall in the following locations:

- a. At the upstream outer corner of the left spillway training wall
  - b. Approximately 34' to the right of the raw water intake;
  - c. Approximately 14' from the left end of the dam;
4. Submit an O&M plan to DES for review. Refer to the enclosed guidelines; and
  5. Update and test the EAP. If you have any questions relative to updating and testing the EAP please contact Bethann McCarthy, EAP Coordinator at 271-3406.

DES is requesting that you complete and submit the attached "Intent to Complete Repairs" form, within 30 days of receipt of this letter, that will provide for correction of the identified deficiencies by the date(s) indicated above. Please call or write to our office if the repairs are completed ahead of the aforementioned schedule so that DES may schedule a follow-up inspection. Unless notified otherwise, DES will conduct the follow-up inspection on or after the date(s) indicated above. If you believe changes to the items of work or dates are necessary, please make the changes directly on the form and provide a brief explanation. Please call or write to our office if the repairs are completed before the aforementioned schedule. We have enclosed a self addressed stamped envelope for you to return this form.

Our intent in sending you this correspondence is to make you aware of items that DES believes warrant your attention to insure the continued safe operation of your dam. It is our hope that, through the submittal of the attached form and a commitment to keeping a well-maintained dam, you will voluntarily comply with the requested items of work. If we do not receive the intent form or a similarly adequate written reply, we will assume that you are in agreement with our findings and recommendations and DES will carry out follow-up inspections accordingly.

If you have any questions or comments regarding this Letter of Deficiency or would like to be present at future inspections, please contact me at 271-3406, or write to the Water Division at the address listed on the top of the previous page.

Sincerely,

**COPY**

Grace E. Levergood, P.E.  
Dam Safety Engineer

Attachments Guideline for an O&M plan, DB13  
cc: Gretchen Rule

Bethann McCarthy, P.E., EAP Coordinator  
Certified # 7000 1670 0000 0584 2381  
GEL/was/h:/safety/wendy/lod/082-02lod.doc